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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

KIANERSI, MITRA

ART UNIT	PAPER NUMBER
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2143

DATE MAILED: 02/09/2004

7

Please find below and/or attached an Office communication concerning this application or proceeding.

7

Office Action Summary

Application No.

09/689,222

Applicant(s)

NAG ET AL.

Examiner

mitra kianersi

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 October 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6. 6) ☐ Other: _____

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Claims 1-40 have been examined.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Himbeault et al. (EP 1017200) and further in view of Houh (US 2002/0015387)

1. As to claim 1, a method of conveying information about a Voice Over Internet Protocol (VoIP) network to a user comprising:

-discovering a plurality of nodes on the VoIP network, the plurality of nodes including a plurality of media aggregation managers that provide application/protocol specific multiplexing/demultiplexing of media traffic onto a preallocated reservation protocol session; (corresponds to the network management service, paragraph [0009], Himbeault et al.) Himbeault et al. do not explicitly disclose graphically depicting representations of the plurality of nodes and their interconnections on a network map, wherein the representations of the plurality of media aggregation managers are visually distinguishable from the remainder of the plurality of nodes. However, Houh discloses a method where the user can view profiles in a graphical format. The network emulator to inject network behavior between two gateways can use stored profiles, [0065]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Himbeault's idea of management of voice and data traffic over a data network with Houh's voice traffic packet capture and analysis tool for a data network using graphical presentation in order to allows vendors

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of VoIP equipment to understand and hence improve their products to speed the acceptance and deployment of their products. (See paragraph [0037])

2. As per claim 2, further comprising displaying a plurality of physical paths that are available for exchanging media packets between a selected pair of media aggregation managers of the plurality of media aggregation managers. (corresponds to VoIP packets traversed, paragraph [0009], Himbeault) and (paragraphs [0010] and [0011], Houh),

3. As per claim 3, wherein the plurality of physical paths, are prioritized in items of their relative desirability for serving as the path over which media packets will be transferred between the first and second media aggregation managers. (corresponds to association of elements in a defined Management Information Base, paragraph [0011], Himbeault) and (paragraphs [0002], Houh)

4. As per claim 4, a method of allowing a user to interactively explore how changes in path selection between media aggregation managers affects projected link utilization in a network comprising:

, the first and second media aggregation managers serving as reservation session aggregation points between a first user community and a second user community and having a plurality of physical paths through which media packets may be exchanged by way of one or more packet forwarding devices; displaying a first projected link utilization based upon an indication that a first path of the plurality of physical paths will be used to convey media packets between the first and second media aggregation managers; (corresponds to the network management service, paragraph [0009], and displaying a second projected link utilization based upon an indication that a second path of the plurality of physical paths will be used to convey media packets between the first and second media aggregation managers. Himbeault et al. do not explicitly disclose displaying graphical representations of a first media aggregation manager and a second media aggregation manager However, Houh discloses a method where the user can view profiles in a graphical format. The network emulator to inject network

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behavior between two gateways can use stored profiles, paragraph [0065]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Himbeault's idea of management of voice and data traffic over a data network with Houh's voice traffic packet capture and analysis tool for a data network using graphical presentation in order to allow vendors of VoIP equipment to understand and hence improve their products to speed the acceptance and deployment of their products. (see paragraph [0037])

5. As per claim 5, further comprising overlaying a selected path of the plurality of physical paths onto existing bandwidth allocations to determine a projected link utilization associated with the selected path. (corresponds to utilization in real time, paragraph [0012], Himbeault) and (paragraphs [0010],[0011], Houh)

6. As per claim 6, a method comprising:
in response to a discovery request, discovering nodes on a network:
identifying and graphically displaying the nodes and their interconnections on a map
receiving inputs including a first node, a second node and a projected
bandwidth traffic between the first node and the second node; and
displaying a projected bandwidth utilization for the nodes that accounts
for the increase in bandwidth utilization caused by the projected bandwidth traffic for a
schedule. (corresponds to paragraph [0009], [0010] and [0011], Himbeault et al.)

7. As per claim 7, wherein the nodes include at least one media
aggregation manager.(corresponds to Network Management System for each type of
element, paragraph [0017], Himbeault et al.)

8. As per claim 8, further comprising displaying a plurality of
paths between the first node and the second node. ([0010], [0011], Himbeault et al.)

9. As per claim 9, where the plurality of paths between the first

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node and the second node are prioritized by a criteria. ([0002], Houh)

10. As per claim 10, a Graphical User Interface (GUI) comprising:
a display portion that graphically depicts, and identifies a plurality of
nodes on a network, wherein the plurality of nodes includes a plurality of media
aggregation managers that provide application/protocol specific
multiplexing/demultiplexing of media traffic onto a preallocated reservation protocol
session, and wherein the plurality of media aggregation managers are distinguishable
from other nodes on the network. ([0016], Houh)

11. As per claim 11, further comprising an identification table for displaying
characteristics of a selected node. (corresponds to table lookup unit, [0028], Houh)

12. As per claim 12, a method utilizing a Graphical User interface (GUI) comprising:
receiving a first input indicating a first media aggregation manager;
receiving a second input indicating a second media aggregation manager;
receiving a third input indicating a projected utilization between the first media
aggregation manager and the second media aggregation manager; (corresponds to
paragraph [0009], [0010] and [0011], Himbeault et al.)

Himbeault et al. do not explicitly disclose displaying a prioritized plurality of paths
between the first media aggregation manager and the second media aggregation
manager that satisfy the projected utilization; and

receiving a fourth input indicating a selected path of the plurality of paths.

However, Houh discloses a method where the user can view profiles in a graphical
format. The network emulator to inject network behavior between two gateways can
use stored profiles, paragraph [0065]. Therefore, it would have been obvious to one of
ordinary skill in the art at the time the invention was made to incorporate Himbeault's
idea of management of voice and data traffic over a data network with Houh's voice
traffic packet capture and analysis tool for a data network using graphical presentation
in order to allow vendors of VoIP equipment to understand and hence improve their

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products to speed the acceptance and deployment of their products. (see paragraph [0037])

13. As per claim 13 and 33, further comprising a control initializing an allocation of bandwidth between the first media aggregation manager and the second media aggregation manager. ([0010], [0011], Houh)

14. As per claim 14 and 34, wherein the allocation of bandwidth comprises a provisioning of plurality of routers between the first media aggregation manager and the second media aggregation manager. ([0010], [0011], Himbeault et al.)

15. As per claim 15 and 35, wherein the provisioning of the plurality of routers includes that force media to route through the plurality of routers when being communicated from a first community of residents utilizing the first media aggregation manager to a second community of residents utilizing the second media aggregation manager. (corresponds to paragraph [0009], [0010] and [0011], Himbeault et al.)

16. As per claims 16 and 36, further comprising an analysis control for receiving an input indicating the initiation of analysis of the first path, initiate further table lookups, collect table lookup results, classify cells/packets and perform scheduling based on the cell/packet characterization. ([0029], Houh)

17. As per claims 17 and 37, further comprising:
receiving a fifth input indicating a node on the selected path; and
displaying a schedule projecting bandwidth utilization for the node. (perform scheduling based on the cell/packet characterization. ([0029], Houh)

18. Claims 18 and 38, recite the same limitations as claim 4. Therefore, it is analyzed and rejected with the same rationale.

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19. As per claims 19 and 39, a method comprising provisioning a plurality of routers according to a path selected by a user over which reservation protocol session packets are forced to travel. (corresponds to the signal traveling, [0039], Houh).

20. Claims 20, 27 and 40, recite the same limitations as claim 7. Therefore, it is analyzed and rejected with the same rationale.

21. As per claim 21, a machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to:

discover a plurality of nodes on the VoIP network, the plurality of nodes including a plurality of media aggregation managers that provide application/protocol specific multiplexing/demultiplexing of media traffic onto a preallocated, reservation protocol session; and (corresponds to paragraph [0009], [0010] and [0011], Himbeault et al.) Himbeault et al. do not explicitly disclose graphically depict representations of the plurality of nodes and their interconnections on a network map, wherein the representations of the plurality of media aggregation managers are visually distinguishable from the remainder of the plurality of nodes.

However, Houh discloses a method where the user can view profiles in a graphical format. The network emulator to inject network behavior between two gateways can use stored profiles, [0065]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Himbeault's idea of management of voice and data traffic over a data network with Houh's voice traffic packet capture and analysis tool for a data network using graphical presentation in order to allow vendors of VoIP equipment to understand and hence improve their products to speed the acceptance and deployment of their products. (See paragraph [0037])

22. Claims 22-23, recite the same limitations as claim 2-3. Therefore, it is analyzed and rejected with the same rationale.

23. As per claim 24, a machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to:

the first and second media aggregation managers serving as reservation session aggregation points between a first user community and a second user community and having a plurality of physical paths through which media packets may be exchanged by way of one or more packet forwarding devices, display a first projected link utilization based upon an indication that a first path of the plurality of physical paths will be used to convey media packets between the first and second media aggregation managers; and display a second projected link utilization based upon an indication that a second path of the plurality of physical paths will be used to convey media between the first and second media aggregation managers. (corresponds to paragraph [0009], [0010] and [0011], Himbeault et al.). Himbeault et al. do not explicitly disclose display graphical representations of a first media aggregation manager and a second media aggregation manager; However, Houh discloses a method where the user can view profiles in a graphical format. The network emulator to inject network behavior between two gateways can use stored profiles, paragraph [0065]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Himbeault's idea of management of voice and data traffic over a data network with Houh's voice traffic packet capture and analysis tool for a data network using graphical presentation in order to allow vendors of VoIP equipment to understand and hence improve their products to speed the acceptance and deployment of their products. (see paragraph [0037])

24. Claim 25, recites the same limitations as claim 5. Therefore, it is analyzed and rejected with the same rationale.

25. As per claim 26, a machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to:

discover nodes on a network in response to a discovery request;

identify and graphically display the nodes and their interconnections on

a map; receive inputs including a first node, a second node, and an input means

for indicating a projected bandwidth traffic requirements between the first node and the second node; and display the projected bandwidth traffic requirements for the nodes.

Himbeault et al. do not explicitly disclose display graphical representations of a first media aggregation manager and a second media aggregation manager, (corresponds to paragraph [0009], [0010] and [0011], Himbeault et al.)

However, Houh discloses a method where the user can view profiles in a graphical format. The network emulator to inject network behavior between two gateways can use stored profiles, paragraph [0065]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Himbeault's idea of management of voice and data traffic over a data network with Houh's voice traffic packet capture and analysis tool for a data network using graphical presentation in order to allow vendors of VoIP equipment to understand and hence improve their products to speed the acceptance and deployment of their products. (see paragraph [0037])

26. Claim 28-29, recites the same limitations as claim 8-9. Therefore, it is analyzed and rejected with the same rationale.

27. As per claim 30, a machine-readable medium having stored thereon data representing Sequences of instructions which, when executed by a processor, cause the processor to:

wherein the plurality of nodes includes a plurality of media aggregation managers that provide application/protocol specific multiplexing/demultiplexing of media traffic onto a preallocated reservation protocol session, and wherein the plurality of media aggregation

managers are distinguishable from other nodes on the network. (corresponds to paragraph [0009], [0010] and [0011], Himbeault et al.)

Himbeault et al. Do not explicitly display a first portion that graphically depicts and identifies a plurality of nodes on a network, However, Houh discloses a method where the user can view profiles in a graphical format. The network emulator to inject network behavior between two gateways can use stored profiles, paragraph [0065]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Himbeault's idea of management of voice and data traffic over a data network with Houh's voice traffic packet capture and analysis tool for a data network using graphical presentation in order to allows vendors of VoIP equipment to understand and hence improve their products to speed the acceptance and deployment of their products. (see paragraph [0037])

28. Claim 31, recites the same limitations as claim 11. Therefore, it is analyzed and rejected with the same rationale.

29. as per claim 32, a machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a processor, cause the processor to:

receive a first input indicating a first media aggregation manager;

receive a second input indicating a second media aggregation manager;

receive a third input indicating a projected utilization between the first media aggregation manager and the second media aggregation manager;

(corresponds to paragraph [0009], [0010] and [0011], Himbeault et al.)

Himbeaulth et al. do not explicitly disclose display a prioritized plurality of paths between the first media aggregation manager and the second media aggregation manager that satisfy the projected utilization, and receive a fourth input indicating a selected path of the plurality of paths. However, Houh discloses a method where the user can view profiles in a graphical format. The network emulator to inject network behavior between

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two gateways can use stored profiles, paragraph [0065]. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Himbeault's idea of management of voice and data traffic over a data network with Houh's voice traffic packet capture and analysis tool for a data network using graphical presentation in order to allows vendors of VoIP equipment to understand and hence improve their products to speed the acceptance and deployment of their products. (see paragraph [0037])


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mitra Kianersi whose telephone number is (703) 305-4650. The examiner can normally be reached on 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-9923.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Mitra Kianersi
Jan/30/2004


DAVID WILEY
SUPERVISORY PATENT EXAMINER
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